

# MATERIAL SAFETY DATA SHEET

Nature Clean- Frank T Ross And Sons.

Hand Sanitizer Citrus

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Hand Sanitizer - Citrus      **PRODUCT USE:** Hand sanitizing  
**MANUFACTURER:** Frank T Ross and Sons Ltd      **SUPPLIER:** Frank T Ross and Sons  
**ADDRESS:** 70 Esna Park Drive, Unit 14 Markham, Ontario. L3R 6E7      **ADDRESS:** 70 Esna Park Drive, Unit 14 Markham, Ontario. L3R 6E7  
**EMERGENCY:** 905 940 1107      **EMERGENCY #:** 905-940 1107

## SECTION II: INFORMATION ON INGREDIENTS

Ingredients	CAS#	Wt%	OSHA-PEL	ACGIH-TLV	LD <sub>50</sub>
Ethanol SDAG 3	64-17-5	60-100 %	1,000 ppm	1,000 ppm	7,060 mg/Kg (Oral/Rat)

All active ingredients in this product are derived from readily biodegradable, renewable, sustainable, botanical, resources.

## SECTION III: HAZARDOUS IDENTIFICATION

**Route of Entry:** Eye, skin contact, ingestion.  
**Potential Health Effects:**  
**Eye Contact:** May cause irritation to eyes. Damage is normally mild to moderate conjunctivitis, seen as mainly redness to the conjunctiva.  
**Skin Contact:** No evidence of adverse effects from available scientific literature.  
**Inhalation:** May slight cause nose, throat and respiratory tract irritation  
**Ingestion:** May cause irritation to mouth, esophagus and stomach. May cause gastric tract disorder and/or damage.  
**Chronic Effects**  
**Carcinogenicity:** No ingredients listed IARC or NTP or ACGIH. Non-hazardous by WHIMIS/OSHA criteria.  
**Teratogenicity, Mutagenicity, Reproductive Effects:** The ingredients in this product were found not to be mutagenic when tested by the Ames Assay, (OECD Guidelines for chemical testing, sec.471)  
Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects which together constitute the fetal alcohol syndrome. These include mental and physical retardation, motor and language difficulties, behavioural disorders.  
**Skin:** No evidence of adverse effects from available scientific literature

## SECTION IV: FIRST AID MEASURES

**Eye Contact:** Immediately flush with water for 15 minutes. Holding eyelids open during flushing. If irritation persists, repeat flushing and obtain medical attention immediately.  
**Skin Contact:**  
**Inhalation:** Remove to fresh air.  
**Ingestion:** DO NOT INDUCE VOMITING. Rinse mouth with water, then drink one glass of water. Seek medical attention. Do not give anything to victim if unconscious or convulsing.  
If vomiting occurs naturally have victim lean forward to reduce the risks of aspiration.  
**Notes to Physician:** Symptoms of ethanol intoxication vary with the blood level. Mild intoxication occurs between 0.015% and 0.15%. Above 0.15 % the person is definitely under the influence of ethanol. This product includes ingredient as a denaturant that is of very low toxicity at low concentration. This is a embittering agent.

# MATERIAL SAFETY DATA SHEET

Nature Clean- Frank T Ross And Sons.

Hand Sanitizer Citrus

## SECTION V: FIRE FIGHTING MEASURES

**Flammability:** Flammable  
**Flash Point deg (C,TCC) :** 13 °C as 100 % ethanol (TCC-ASTM D-56)

**Means of Extinction:** As appropriate for surrounding fire. Use water, dry chemical, carbon dioxide or foam  
**Special Fire Hazards:** Fire fighters should wear self-contained breathing apparatus as for surrounding fire.  
**Auto-ignition temperature:** Not available  
**Flame propagation or burning rate of solid:** Not applicable.  
**Sensitivity to static discharge:** Not available  
**Unusual Fire and Explosion Hazards.** None expected. As per surrounding fire.  
**Hazardous decomposition products:** Oxides of carbon.

## SECTION VI: ACCIDENTAL RELEASE MEASURES

**Leak and Spill Procedures:** Before attempting clean up, refer to the hazard date provided above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered container. For large quantities, dispose of in accordance with local, provincial/ state or federal regulations.

## SECTION VII: HANDLING AND STORAGE

**Storage Requirements:** KEEP OUT OF REACH OF CHILDREN. Store in a closed container away from incompatible materials, which include acids, oxidizing materials, reducing sugars and Ammonia Salts.  
Storage temperature 0 C to 35 C (must be stored above 0 C at all times)  
Transport temperature 0 C to 35 C (must be stored above 0 C at all times.)  
Keep container closed. Handle and open container with care. Store in a well ventilated place away from incompatible materials. Do not store near open flame.  
Do not reuse empty containers.

## SECTION VIII: EXPOSURE CONTROL/PERSONAL PROTECTION

**Gloves:** Not required  
**Eye Protection:** Not normally required  
**Respiratory Protection:** Not normally required  
**Other Protective Equipment:** As required by employer code. Eye bath, safety shower, protective clothing.  
**Engineering Controls:** General ventilation normally required

## SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point (deg C)</b>	N/ App	<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.01-1.05	<b>Evaporation Rate (water=1):</b>	N/ App.
<b>% Volatile (Wt%):</b>	>99	<b>Solubility in water:</b>	Complete	<b>pH (1.0 %):</b>	7.0
<b>Physical State:</b>	Clear liquid	<b>Viscosity:</b>	Clear gel		
<b>Appearance / Odour:</b>	Clear transparent gel with citrus scent				

# MATERIAL SAFETY DATA SHEET

Nature Clean- Frank T Ross And Sons.

Hand Sanitizer Citrus

## SECTION X: STABILITY AND REACTIVITY

**Conditions for Chemical Instability:** Stable  
**Incompatible Materials:** Strong reducing agents, strong acids, oxidizing agents.  
**Hazardous Decomposition Products:** Oxides of carbon, Oxides of Nitrogen when heated.

## SECTION XI: TOXICOLOGICAL INFORMATION

See section II

## SECTION XII: ECOLOGICAL INFORMATION

**Biodegradability:** Ethanol is biodegradable under OECD 301 D  
All active ingredients in this product are derived from readily biodegradable, renewable, sustainable, botanical, resources

## SECTION XIII: DISPOSAL CONSIDERATIONS

Dispose of in accordance to all local, provincial/state and federal regulations.

## SECTION XIV: TRANSPORTATION

**T.D.G. Classification:** Consumer Commodity- limited quantity  
**D.O.T. Classification:** Consumer Commodity- limited quantity

## SECTION XV: REGULATORY INFORMATION

**Occupational Health and Safety Regulations:**  
**WHMIS Class:** Class D Division 2B, B Flammable substance  
**OSHA & WHMIS:** MSDS prepared pursuant to the Hazard Communication Standard (CFR29.1920.1200) and Canadian WHMIS regulations

**Environmental Regulatory Lists:**  
**SARA – Section 313 (Toxic Chemical Release Reporting) 40 CFR 372** None of these ingredients are listed.  
**CERCLA – Section 102 (Reportable Quantity) 40 CFR 302** None of the ingredients are listed  
**RCRA 40 CFR 261 (Subpart D)** None of the ingredients are listed  
**CLEAN WATER ACT – Section 311 (Reportable Qty) 40 CFR 116:** None of these ingredients are listed  
**CLEAN AIR ACT – Section 312 (List of Hazardous Pollutants) 40 CFR 63 (Subpart C)** None of these ingredients are listed  
**National Pollutant Release Inventory** None of these ingredients are listed  
**Toxic Substances Control Act (TSCA)** All ingredients are registered on the Chemical Substances Inventory.  
**Canadian Domestic Substance List (DSL):** All ingredients are registered on the DSL

## SECTION XVI: OTHER INFORMATION

# MATERIAL SAFETY DATA SHEET

Nature Clean- Frank T Ross And Sons.

Hand Sanitizer Citrus

<b>Date:</b>	April 8, 2010	<b>Prepared By:</b>	Technical Services Group	<b>Telephone:</b>	905-940-1107
--------------	---------------	---------------------	-----------------------------	-------------------	--------------

**Disclaimer:**

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond the control of supplier, it is assumed that users of this material; have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries for consequential damages, which may result from the use or reliance on any information contained in this form. If user requires independent information on ingredients in this or other material, we recommend contact with the Canadian Centre for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (905-572-4400) or CSST on Montreal, Quebec (514-873-3990).